DETAILED ESTIMATE

For the Work of

"Improvements And Restoration Of Roads At Hegdenagara Eastern Side, Nes Shanti Nagara, Ex-Services Man Layout, Shiradi Sai Nagara And Other Roads In Ward No-06, Byatrayanpura Sub Division"

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- IMPROVEMENTS AND RESTORATION OF ROADS AT HEGDENAGARA EASTERN SIDE, NES SHANTI NAGARA, EX-SERVICES MAN LAYOUT, SHIRADI SAI NAGARA AND OTHER ROADS IN WARD NO-06, BYATRAYANPURA SUB DIVISION

								Estimation Cost.Rs	10000000.00
Sl No	**Description of work**		**Mesurement**				**Qty**	**Rate**	**Amount**
		Unit	**No.**	**L**	**B**	**D**			
1	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1) 5km lead= 57+2.0x1.28x5 =69.80								
	Drain Desilt	**Cum**							
	Subari Nagar Layout								
	(W0207)		1	153.00	0.50	0.40	30.60		
	2nd Cross Road (W0090)		2	153.00	0.50	0.40	61.20		
	2nd Main Road (173 to 184)(W0155)		2	81.00	0.50	0.40	32.40		
	3rd Main Road (W01671)		2	79.00	0.50	0.40	31.60		
	4th Main Road (145 to 158) (W0179)		2	80.00	0.50	0.40	32.00		
	6th Cross Road Ganesh Temple (W0086)		2	153.00	0.55	0.50	84.15		
	11th Cross Road (W0177)		2	44.10	0.55	0.50	24.26		
	12th Cross Road (W0201)		2	46.00	0.55	0.50	25.30		
	(W0203)		2	42.00	0.55	0.50	23.10		
	(W0205)		2	28.00	0.55	0.50	15.40		
	Basic rate	130.00							
	Area weightage 6%	7.80							
	5Km lead & Lift= 57+(2*1.28*5)	69.80							
	Sub Total	**207.60**							
	Total						**360.01**	**207.60**	**74738.00**
2	**Removing and refixing** stone slabs of drains and pointing in CM (1:3) (P.No-27,I No-5.33)								
	Open Drain (Side & Bottom)	**Sqm**							
	Subari Nagar Layout								
	(W0207)		1	153.00	1.35		206.55		
	2nd Cross Road (W0090)		2	153.00	1.35		413.10		
	2nd Main Road (173 to 184)(W0155)		2	81.00	1.35		218.70		
	3rd Main Road (W01671)		2	79.00	1.35		213.30		
	4th Main Road (145 to 158) (W0179)		2	80.00	1.35		216.00		
	6th Cross Road Ganesh Temple (W0086)		2	153.00	1.80		550.80		
	11th Cross Road (W0177)		2	44.10	1.80		158.76		
	12th Cross Road (W0201)		2	46.00	1.80		165.60		

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	(W0203)		2	42.00	1.80		151.20		
	(W0205)		2	28.00	1.80		100.80		
	Total						**2394.81**		
	Deduct 20% for Missing/Damaged						**478.96**		
	Consider 80% Qnty for Removing & Refixing						**1915.85**		
	Basic rate	105.00							
	Area weightage 6%	6.3							
	Sub Total	**111.30**							
	Total						**1915.85**	**111.30**	**213234.00**
3	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete.(P.No.27,I.No.5.31.1)								
	Provide for 20% Missing/Damaged	**Sqm**	From item no. 2				**478.96**		
	Basic rate	700.00							
	Area weightage 6%	42							
	Sub Total	**742.00**							
	Total						**478.96**	**742.00**	**355390.00**
4	KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 5km lead= (I No-19.14,P No-143)								
	Road	**Cum**							
	Subari Nagar Layout								
	(W0207)		1	153.00	4.50	0.20	137.7		
	Sanitary Line								
	Subari Nagar Layout								
	2nd Cross Road (W0090)		1	153.00	1.20	0.60	110.16		
	2nd Main Road (173 to 184)(W0155)		1	81.00	1.20	0.60	58.32		
	3rd Main Road (W01671)		1	79.00	1.20	0.60	56.88		
	4th Main Road (145 to 158) (W0179)		1	80.00	1.20	0.60	57.60		
	6th Cross Road Ganesh Temple (W0086)		1	153.00	1.20	0.60	110.16		
	11th Cross Road (W0177)		1	44.10	1.20	0.60	31.75		
	12th Cross Road (W0201)		1	46.00	1.20	0.60	33.12		
	(W0203)		1	42.00	1.20	0.60	30.24		
	(W0205)		1	28.00	1.20	0.60	20.16		
	Cross Road		1	118.80	1.20	0.60	85.54		
	Water Supply Line								
	Subari Nagar Layout								
	2nd Cross Road (W0090)		1	153.00	1.00	0.60	91.80		
	2nd Main Road (173 to 184)(W0155)		1	81.00	1.00	0.60	48.60		
	3rd Main Road (W01671)		1	79.00	1.00	0.60	47.40		

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	4th Main Road (145 to 158) (W0179)		1	80.00	1.00	0.60	48.00		
	6th Cross Road Ganesh Temple (W0086)		1	153.00	1.00	0.60	91.80		
	11th Cross Road (W0177)		1	44.10	1.00	0.60	26.46		
	12th Cross Road (W0201)		1	46.00	1.00	0.60	27.60		
	(W0203)		1	42.00	1.00	0.60	25.20		
	(W0205)		1	28.00	1.00	0.60	16.80		
	Cross Road		1	118.80	1.00	0.60	71.28		
	Basic rate	41.00							
	Area weightage 6%	2.46							
	5Km lead= (2*1.28*5)	12.80							
	Sub Total	**56.26**							
	Total						**1226.57**	**56.26**	**69007.00**
5	Supplying and laying Sand / Crushed Sand (Page No III Sl. No. 51 PWD SR 2018-2019)								
	Sanitary Line	**Cum**							
	Subari Nagar Layout								
	2nd Cross Road (W0090)		1	153.00	1.20	0.30	55.08		
	2nd Main Road (173 to 184)(W0155)		1	81.00	1.20	0.30	29.16		
	3rd Main Road (W01671)		1	79.00	1.20	0.30	28.44		
	4th Main Road (145 to 158) (W0179)		1	80.00	1.20	0.30	28.80		
	6th Cross Road Ganesh Temple (W0086)		1	153.00	1.20	0.30	55.08		
	11th Cross Road (W0177)		1	44.10	1.20	0.30	15.88		
	12th Cross Road (W0201)		1	46.00	1.20	0.30	16.56		
	(W0203)		1	42.00	1.20	0.30	15.12		
	(W0205)		1	28.00	1.20	0.30	10.08		
	Cross Road		1	118.80	1.20	0.30	42.77		
	Water Supply Line								
	Subari Nagar Layout								
	2nd Cross Road (W0090)		1	153.00	1.00	0.30	45.90		
	2nd Main Road (173 to 184)(W0155)		1	81.00	1.00	0.30	24.30		
	3rd Main Road (W01671)		1	79.00	1.00	0.30	23.70		
	4th Main Road (145 to 158) (W0179)		1	80.00	1.00	0.30	24.00		
	6th Cross Road Ganesh Temple (W0086)		1	153.00	1.00	0.30	45.90		
	11th Cross Road (W0177)		1	44.10	1.00	0.30	13.23		
	12th Cross Road (W0201)		1	46.00	1.00	0.30	13.80		

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	(W0203)		1	42.00	1.00	0.30	12.60		
	(W0205)		1	28.00	1.00	0.30	8.40		
	Cross Road		1	118.80	1.00	0.30	35.64		
	Basic rate	**1680.95**							
	Total						**544.43**	**1680.95**	**915167.00**
6	KSRRB 300-64.1. Extra for watering the earth to bring the earth upto required optimum moisture content manually including cost of all labour complete as per specifications. (Page No. 148/ Item No. 19.71 PWD SR 2018-19)								
	Sanitary Line	Cum							
	Subari Nagar Layout								
	2nd Cross Road (W0090)		1	153.00	1.20	0.30	55.08		
	2nd Main Road (173 to 184)(W0155)		1	81.00	1.20	0.30	29.16		
	3rd Main Road (W01671)		1	79.00	1.20	0.30	28.44		
	4th Main Road (145 to 158) (W0179)		1	80.00	1.20	0.30	28.80		
	6th Cross Road Ganesh Temple (W0086)		1	153.00	1.20	0.30	55.08		
	11th Cross Road (W0177)		1	44.10	1.20	0.30	15.88		
	12th Cross Road (W0201)		1	46.00	1.20	0.30	16.56		
	(W0203)		1	42.00	1.20	0.30	15.12		
	(W0205)		1	28.00	1.20	0.30	10.08		
	Cross Road		1	118.80	1.20	0.30	42.77		
	Water Supply Line								
	Subari Nagar Layout								
	2nd Cross Road (W0090)		1	153.00	1.00	0.30	45.90		
	2nd Main Road (173 to 184)(W0155)		1	81.00	1.00	0.30	24.30		
	3rd Main Road (W01671)		1	79.00	1.00	0.30	23.70		
	4th Main Road (145 to 158) (W0179)		1	80.00	1.00	0.30	24.00		
	6th Cross Road Ganesh Temple (W0086)		1	153.00	1.00	0.30	45.90		
	11th Cross Road (W0177)		1	44.10	1.00	0.30	13.23		
	12th Cross Road (W0201)		1	46.00	1.00	0.30	13.80		
	(W0203)		1	42.00	1.00	0.30	12.60		
	(W0205)		1	28.00	1.00	0.30	8.40		
	Cross Road		1	118.80	1.00	0.30	35.64		
	Basic rate	12.00							
	Area weightage 6%	0.72							
	Sub Total	**12.72**							
	Total						**544.43**	**12.72**	**6926.00**

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
7	KSRRB 300-50. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by road roller attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM of machineries complete as per specifications. MORTH / Chapter 3(P.No.146, I.No.19.56)								
	Road	**Sqm**							
	Subari Nagar Layout								
	2nd Cross Road (W0090)		1	153.00	5.40		826.20		
	2nd Main Road (173 to 184)(W0155)		1	81.00	5.40		437.40		
	3rd Main Road (W01671)		1	79.00	6.20		489.80		
	4th Main Road (145 to 158) (W0179)		1	80.00	5.40		432.00		
	6th Cross Road Ganesh Temple (W0086)		1	153.00	6.20		948.60		
	11th Cross Road (W0177)		1	44.10	6.80		299.88		
	12th Cross Road (W0201)		1	46.00	6.80		312.80		
	(W0203)		1	42.00	6.00		252.00		
	(W0205)		1	28.00	6.40		179.20		
	Cross Road		1	118.80	5.00		594.00		
	Basic rate	39.00							
	Area weightage 6%	2.34							
	Sub Total	**41.34**							
	Total						**4771.88**	**41.34**	**197270.00**
8	KSRRB 300-58. **Compaction of original ground** by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications.(I No-19.64,P No-147)								
	Road	**Sqm**							
	Subari Nagar Layout								
	(W0207)		1	153.00	4.50		688.50		
	2nd Cross Road (W0090)		1	153.00	5.40		826.20		
	2nd Main Road (173 to 184)(W0155)		1	81.00	5.40		437.40		
	3rd Main Road (W01671)		1	79.00	6.20		489.80		
	4th Main Road (145 to 158) (W0179)		1	80.00	5.40		432.00		
	6th Cross Road Ganesh Temple (W0086)		1	153.00	6.20		948.60		
	11th Cross Road (W0177)		1	44.10	6.80		299.88		
	12th Cross Road (W0201)		1	46.00	6.80		312.80		
	(W0203)		1	42.00	6.00		252.00		
	(W0205)		1	28.00	6.40		179.20		
	Cross Road		1	118.80	5.00		594.00		
	Basic rate	6.00							
	Area weightage 6%	0.36							
	Sub Total	**6.36**							
	Total						**5460.38**	**6.36**	**34729.00**

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
9	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)								
	Road	**Cum**							
	Subari Nagar Layout								
	(W0207)		1	153.00	4.50	0.20	137.70		
	2nd Cross Road (W0090)		1	153.00	5.40	0.20	165.24		
	2nd Main Road (173 to 184)(W0155)		1	81.00	5.40	0.20	87.48		
	3rd Main Road (W01671)		1	79.00	6.20	0.20	97.96		
	4th Main Road (145 to 158) (W0179)		1	80.00	5.40	0.20	86.40		
	6th Cross Road Ganesh Temple (W0086)		1	153.00	6.20	0.20	189.72		
	11th Cross Road (W0177)		1	44.10	6.80	0.20	59.98		
	12th Cross Road (W0201)		1	46.00	6.80	0.20	62.56		
	(W0203)		1	42.00	6.00	0.20	50.40		
	(W0205)		1	28.00	6.40	0.20	35.84		
	Cross Road		1	118.80	5.00	0.20	118.80		
	Sanitary Line								
	Subari Nagar Layout								
	2nd Cross Road (W0090)		1	153.00	1.20	0.25	45.90		
	2nd Main Road (173 to 184)(W0155)		1	81.00	1.20	0.25	24.30		
	3rd Main Road (W01671)		1	79.00	1.20	0.25	23.70		
	4th Main Road (145 to 158) (W0179)		1	80.00	1.20	0.25	24.00		
	6th Cross Road Ganesh Temple (W0086)		1	153.00	1.20	0.25	45.90		
	11th Cross Road (W0177)		1	44.10	1.20	0.25	13.23		
	12th Cross Road (W0201)		1	46.00	1.20	0.25	13.80		

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	(W0203)		1	42.00	1.20	0.25	12.60		
	(W0205)		1	28.00	1.20	0.25	8.40		
	Cross Road		1	118.80	1.20	0.25	35.64		
	Water Supply Line								
	Subari Nagar Layout								
	2nd Cross Road (W0090)		1	153.00	1.00	0.25	38.25		
	2nd Main Road (173 to 184)(W0155)		1	81.00	1.00	0.25	20.25		
	3rd Main Road (W01671)		1	79.00	1.00	0.25	19.75		
	4th Main Road (145 to 158) (W0179)		1	80.00	1.00	0.25	20.00		
	6th Cross Road Ganesh Temple (W0086)		1	153.00	1.00	0.25	38.25		
	11th Cross Road (W0177)		1	44.10	1.00	0.25	11.03		
	12th Cross Road (W0201)		1	46.00	1.00	0.25	11.50		
	(W0203)		1	42.00	1.00	0.25	10.50		
	(W0205)		1	28.00	1.00	0.25	7.00		
	Cross Road		1	118.80	1.00	0.25	29.70		
	Basic rate	1888.00							
	Area weightage 6%	113.28							
	Sub Total	**2001.28**							
	Total						**1545.77**	**2001.28**	**3093521.00**
10	KSRRB M500-6. Providing and applying **primer coat** with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6)								
	Road	**Sqm**							
	Subari Nagar Layout								
	(W0207)		1	153.00	4.50		688.50		
	2nd Cross Road (W0090)		1	153.00	5.40		826.20		
	2nd Main Road (173 to 184)(W0155)		1	81.00	5.40		437.40		
	3rd Main Road (W01671)		1	79.00	6.20		489.80		
	4th Main Road (145 to 158) (W0179)		1	80.00	5.40		432.00		
	6th Cross Road Ganesh Temple (W0086)		1	153.00	6.20		948.60		
	11th Cross Road (W0177)		1	44.10	6.80		299.88		
	12th Cross Road (W0201)		1	46.00	6.80		312.80		
	(W0203)		1	42.00	6.00		252.00		
	(W0205)		1	28.00	6.40		179.20		
	Cross Road		1	118.80	5.00		594.00		
	Basic rate	32.00							
	Area weightage 6%	1.92							
	Sub Total	**33.92**							
	Total						**5460.38**	**33.92**	**185217.00**

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
11	KSRRB 500-11. Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by smooth wheeled, vibratory & tandem rollers to achieve the desired density, but excluding cost of primer / tack coat including lead, lift and cost of all materials, labour, HOM of machineries complete as per specifications. MORTH /Chapter 5 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 3.4 % VG-30 Bitumen(P.No.159,I.No.21.11.6).								
	Road	**Cum**							
	Subari Nagar Layout								
	(W0207)		1	153.00	4.50	0.05	34.43		
	2nd Cross Road (W0090)		1	153.00	5.40	0.05	41.31		
	2nd Main Road (173 to 184)(W0155)		1	81.00	5.40	0.05	21.87		
	3rd Main Road (W01671)		1	79.00	6.20	0.05	24.49		
	4th Main Road (145 to 158) (W0179)		1	80.00	5.40	0.05	21.60		
	6th Cross Road Ganesh Temple (W0086)		1	153.00	6.20	0.05	47.43		
	11th Cross Road (W0177)		1	44.10	6.80	0.05	14.99		
	12th Cross Road (W0201)		1	46.00	6.80	0.05	15.64		
	(W0203)		1	42.00	6.00	0.05	12.60		
	(W0205)		1	28.00	6.40	0.05	8.96		
	Cross Road		1	118.80	5.00	0.05	29.70		
	Basic rate	5533.00							
	Area weightage 6%	331.98							
	Sub Total	**5864.98**							
	Total						**273.02**	**5864.98**	**1601251.00**
12	KSRRB 500-7. Providing and **applying tack coat** using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications (P.No-161,I No-21.7)								
	Road	**Sqm**							
	Subari Nagar Layout								
	(W0207)		1	153.00	4.50		688.50		
	2nd Cross Road (W0090)		1	153.00	5.40		826.20		
	2nd Main Road (173 to 184)(W0155)		1	81.00	5.40		437.40		
	3rd Main Road (W01671)		1	79.00	6.20		489.80		
	4th Main Road (145 to 158) (W0179)		1	80.00	5.40		432.00		
	6th Cross Road Ganesh Temple (W0086)		1	153.00	6.20		948.60		
	11th Cross Road (W0177)		1	44.10	6.80		299.88		
	12th Cross Road (W0201)		1	46.00	6.80		312.80		
	(W0203)		1	42.00	6.00		252.00		

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	(W0205)		1	28.00	6.40		179.20		
	Cross Road		1	110.00	5.00		550.00		
	Basic rate	12.00							
	Area weightage 6%	0.72							
	Sub Total	**12.72**							
	Total						**5416.38**	**12.72**	**68897.00**
13	KSRRB M500-19. Providing and laying **bituminous concrete** using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 507 of MORTH V revision using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-ll (30 mm to 45 mm) with 5.4% VG-30 Bitumen(P.No-162,I No-21.22.6)								
	Road	**Cum**							
	Subari Nagar Layout								
	(W0207)		1	153.00	4.50	0.04	27.54		
	2nd Cross Road (W0090)		1	153.00	5.40	0.04	33.05		
	2nd Main Road (173 to 184)(W0155)		1	81.00	5.40	0.04	17.50		
	3rd Main Road (W01671)		1	79.00	6.20	0.04	19.59		
	4th Main Road (145 to 158) (W0179)		1	80.00	5.40	0.04	17.28		
	6th Cross Road Ganesh Temple (W0086)		1	153.00	6.20	0.04	37.94		
	11th Cross Road (W0177)		1	44.10	6.80	0.04	12.00		
	12th Cross Road (W0201)		1	46.00	6.80	0.04	12.51		
	(W0203)		1	42.00	6.00	0.04	10.08		
	(W0205)		1	28.00	6.40	0.04	7.17		
	Cross Road		1	118.80	5.00	0.04	23.76		
	Basic rate	7972.00							
	Area weightage 6%	478.32							
	Sub Total	**8450.32**							
	Total						**218.42**	**8450.32**	**1845679.00**
14	KSRRB M800-1**3.Road Marking with Hot Applied Thermoplastic Compound** with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)								
	Road	**Sqm**							
	Subari Nagar Layout								
	(W0207)		2	153.00	0.10		30.60		
	2nd Cross Road (W0090)		2	153.00	0.10		30.60		
	2nd Main Road (173 to 184)(W0155)		2	81.00	0.10		16.20		
	3rd Main Road (W01671)		2	79.00	0.10		15.80		
	4th Main Road (145 to 158) (W0179)		2	80.00	0.10		16.00		

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	6th Cross Road Ganesh Temple (W0086)		2	153.00	0.10		30.60		
	11th Cross Road (W0177)		2	44.10	0.10		8.82		
	12th Cross Road (W0201)		2	46.00	0.10		9.20		
	(W0203)		2	42.00	0.10		8.40		
	(W0205)		2	28.00	0.10		5.60		
	Cross Road		2	118.80	0.10		23.76		
	Basic rate	429.00							
	Area weightage 6%	25.74							
	Sub Total	**454.74**							
	Total						**195.58**	**454.74**	**88939.00**
								Grand Total	**8749965.00**
								DPR Charges (1% of estimated cost)	**100000.00**
								Project management And Consultancy Charges(1% of estimated cost)	**100000.00**
								GST Charges (12% of estimated cost)	**1049996.00**
								Miscellenious and rounding	**39.00**
								Total Amount	**10000000.00**
									RUPEES ONE CRORE ONLY

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2018-2019,Issue rates and Data Rates.

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP

PUDRAPRASAD CONSULTANTS
BANGALORE